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## CLAIMS:

 A polymer containing a group of the following general formula (1) and having a weight average molecular weight of
 1.000 to 500.000.

$$R^2$$
 $R^3$ 
 $R^4$ 
 $R^6$ 
 $R^7$ 
 $R^5$ 

wherein R<sup>1</sup> to R<sup>3</sup> each are hydrogen, fluorine or a straight, branched or cyclic alkyl or fluorinated alkyl group of 1 to 20 carbon atoms, R<sup>2</sup> and R<sup>3</sup> may bond together to form a ring and in that event, each is an alkylene group of 1 to 20 carbon atoms which may contain a hetero atom such as oxygen, sulfur or nitrogen,

 $R^4$  and  $R^5$  each are hydrogen or fluorine,

 $R^6$  and  $R^7$  each are hydrogen, fluorine or a straight, branched or cyclic alkyl or fluorinated alkyl group of 1 to 20 carbon atoms, at least one of  $R^6$  and  $R^7$  contains at least one fluorine atom,  $R^6$  and  $R^7$  may bond together to form a ring and in that event, each is a straight, branched or cyclic alkylene or fluorinated alkylene group of 1 to 20 carbon

"a" is 0 or 1.

atoms, and

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2. The polymer of claim 1 containing a group of the following general formula (1a):

$$R^2$$
 $R^2$ 
 $R^3$ 
 $R^2$ 
 $R^3$ 
 $R^3$ 
 $R^3$ 
 $R^3$ 
 $R^3$ 
 $R^3$ 
 $R^3$ 

wherein  $R^1$  to  $R^3$  each are hydrogen, fluorine or a straight, branched or cyclic alkyl or fluorinated alkyl group of 1 to 20 carbon atoms,  $R^2$  and  $R^3$  may bond together to form a ring and in that event, each is an alkylene group of 1 to 20 carbon atoms which may contain a hetero atom such as oxygen, sulfur or nitrogen, "a" is 0 or 1, and "b" is an integer of 1 to 4.

3. The polymer of claim 1 having a partial structure of any one of the following general formulae (2-1) to (2-5):

15 wherein  $R^0$  is a group of formula (1) in claim 1 or a group of formula (1a) in claim 2,

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 $R^8$  to  $R^{10}$  each are hydrogen, fluorine or a straight, branched or cyclic alkyl or fluorinated alkyl group of 1 to 20 carbon atoms,

 $R^{11}$  is a methylene group, oxygen atom or sulfur atom,  $R^{12}$  and  $R^{13}$  each are hydrogen, methyl or CH,CO, $R^{15}$ ,

R and K each are hydrogen, methyl of Ch<sub>2</sub>Co<sub>2</sub>K,

R<sup>14</sup> is a straight, branched or cyclic alkylene or
fluorinated alkylene group of 1 to 20 carbon atoms,

R<sup>15</sup> is a straight, branched or cyclic alkyl or
substituted alkyl group of 1 to 20 carbon atoms, and

"c" is 0 or 1.

- A resist composition comprising the polymer of claim 1.
- 5. A chemically amplified, positive resist composition comprising
  - (A) the polymer of any one of claims 1 to 3,
  - (B) an organic solvent, and
  - (C) a photoacid generator.
- 20 6. The resist composition of claim 5 further comprising(D) a basic compound.
  - 7. The resist composition of claim 5 further comprising (E) a dissolution inhibitor.
  - 8. A process for forming a resist pattern comprising the steps of:

applying the resist composition of claim 4 onto a substrate to form a coating,

heat treating the coating and then exposing it to high-energy radiation in a wavelength band of 100 to 180 nm or 1 to 30 nm through a photo mask, and

optionally heat treating the exposed coating and developing it with a developer.

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9. The pattern forming process of claim 8 wherein the high-energy radiation is an  $F_2$  laser beam,  $Ar_2$  laser beam or soft x-ray.